

## CLAIMS

1. A manipulator comprising a plurality of mutually movable arms, of which a first arm (3) is rotatably arranged around a 5 first axis (A) and a second arm (7) is rotatably arranged around a second axis (B), cabling (12) extending along the mutually movable arms and a supporting device (8) which supports a part of the cabling extending between the first arm and the second arm, said supporting device comprising a 10 supporting arm (9) which, rotatably arranged around a third axis (C), is arranged at the first arm, and a first attachment (13), arranged at the outer end of the supporting arm and surrounding the cabling, **characterized** in that the first attachment and the third axis are arranged on opposite sides 15 of the longitudinal axis of the first arm, that the supporting arm exerts a resilient force in the longitudinal direction of the cabling, and that the supporting device comprises an auxiliary arm (10) with a second attachment (15) arranged at the second arm.
- 20 2. A manipulator according to claim 1, **characterized** in that the supporting arm (9) comprises an angled part which permits the cabling to be held stretched centrally over the first arm.
- 25 3. A manipulator according to claim 1 or 2, **characterized** in that the auxiliary arm (10) is arranged at the turning disc (7) of the manipulator.
- 30 4. A manipulator according to any of the preceding claims, **characterized** in that the supporting arm and the auxiliary arm support a bendable tube, in which the cabling is running.
- 35 5. A manipulator according to any of the preceding claims, **characterized** in that a spiral spring (17) is arranged around the third axis for influencing the supporting arm.

6. A manipulator according to claim 5, **characterized** in that a spiral spring is housed in a container (18).

7. A method in a manipulator comprising a plurality of  
5 mutually movable arms, of which a first arm (3) is rotatably  
arranged around a first axis (A) and a second arm (7) is  
rotatably arranged around a second axis (B), cabling (12)  
extending along the mutually movable arms and a supporting  
10 device (8) which supports a part of the cabling extending  
between the first arm and the second arm, wherein the suppor-  
ting device is brought to comprise a supporting arm (9)  
which, rotatably arranged around a third axis (C), is  
arranged at the first arm, and that a first attachment (13),  
15 which surrounds the cabling, is arranged at the outer end of  
the supporting arm, **characterized** in that the first attach-  
ment and the third axis are arranged on opposite sides of the  
longitudinal axis of the first arm, that the supporting arm  
is adapted to exert a spring force directed along the  
cabling, and that the supporting device is brought to com-  
20 prise an auxiliary arm (10) with a second attachment (15)  
which is arranged at the second arm.

8. A method according to claim 7, **characterized** in that the  
supporting arm (9) is brought to comprise an angled part  
25 which permits the cabling to be kept stretched centrally over  
the first arm.

9. A method according to claim 7 or 8, **characterized** in that  
the auxiliary arm (10) is arranged at the turning disc (7) of  
30 the manipulator.

10. Use of a manipulator according to any of claims 1-6, or a  
method according to claims 7-9 during welding.

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